



# Philippine Sanitation Alliance

## 10th Quarterly Report Results

January to March 2010

Prepared by AECOM International Development for USAID/Philippines under Cooperative Agreement No. 492-A-00-07-00023-00

### I. Executive Summary

The highlight of the quarter was the launching of the two USAID-Rotary projects that the Philippine Sanitation Alliance (PSA) is implementing in partnership with several Rotary clubs and districts. In San Fernando, the PSA and Rotary organized a large sanitation symposium for sanitary inspectors, engineers, city environment officers and private sector service providers from throughout Region 1. A major output of the event was a workshop where teams from 8 of the region's largest cities developed sanitation action plans. The USAID-Rotary Pasig River Improvement Project began the construction of a low-cost, low-maintenance wastewater treatment plant for the Sta. Ana Public Market with participation from the City of Manila Engineering Department and the Metropolitan Manila Development Authority.

The PSA worked with partners in Sta. Rosa and Cagayan de Oro Cities to develop hygiene promotion programs focused on mothers with children below 5 years of age and school children. Other city and water district partners continued preparation of promotion campaigns for their septage management programs. The city council of Davao City and the municipal council of Los Baños passed septage management ordinances, which have been sent to the respective mayors for signature.

### II. Results Achieved

Halfway through the fiscal year, the project has made substantial progress in working with its partners to achieve the indicator targets for FY10. However, most of the activities are still in development and are not expected to move forward until after the elections. Once new officials are in place, the PSA expects to be able to proceed as planned and meet the targets for FY10 by the end of the fiscal year.

### Summary of Results

<b>Indicator</b>	<b>10th Qtr Results</b>	<b>Cumulative FY10 Results (Qtrs 9+10)</b>	<b>FY10 Target</b>	<b>Project Target</b>
1. Number of people in target areas with access to improved sanitation facilities as a result of USG assistance (disaggregated by gender).	183 Men 297 Women 480 Total	402 Men 733 Women 1135 Total	300,000	1,200,000
2. Number of feasibility and special studies/plans prepared	0	0	2	12
3. Amount of non-USAID financing mobilized for sanitation projects and facilities.	\$10,505	\$220,143	\$722,800	\$3,477,805
4. Number of people trained in environmental law, enforcement, public participation, and cleaner production policies, strategies, skills and techniques, disaggregated by gender.	162 Men 84 Women 246 Total	290 Men 157 Women 447 Total	-	1500
5. Number of people trained in child health and nutrition through USG-supported health area programs.*	9 Men 62 Women 71 Total	9 Men 62 Women 71 Total	700	1500
6. Increase in the percentage of mothers of children under five who can cite at least 2 measures to prevent diarrhea.	-	-	25%	25%
7. Increase in the percentage of students who, while at school, observably wash their hands with soap and clean water after using the toilet to prevent diarrhea.	-	-	25%	25%
8. Number of pollution and urban environment policies, laws, agreements or regulations implemented as a result of USG assistance.	-	-	2	5
9. Number of hygiene-related policies, laws, agreements or regulations implemented as a result of USG assistance.	-	-	1	2
10. Number of wastewater treatment projects developed by PSA partners that reduce pollution to levels that meet the government's effluent standards.	-	1	3	8

Details of Results

1. Number of people with access to improved sanitation

<b>Project</b>	<b>Men</b>	<b>Women</b>	<b>Total</b>
Gk-Tayabas Quezon Province	20	30	50
GK-Sariaya Quezon Province	40	60	100
GK-Alabat Quezon Province	60	90	150
GK-Lumad, Batasan Hills QC	63	117	180
<b>TOTAL</b>	<b>183</b>	<b>297</b>	<b>480</b>

2. No feasibility or special studies/plans were completed during the quarter.

3. Amount of non-USAID financing mobilized

Private Sector	\$8,305.10	Cash	\$6,108.54
Public Sector	\$2,199.47	In Kind	\$4,396.03
Total	\$10,504.57	Total	\$10,504.57

(See attached summary in Excel. Cost share sheets from each partner are available upon request.)

- 4.

<b>People Trained</b>	<b>Men</b>	<b>Women</b>	<b>Total</b>
Orientation of Promotions Cluster on 10-Step Promotion Toolkit-January 19, 2010-Los Baños Laguna	7	6	13
Coordination Meeting USAID-Rotary Baesa Project-January 21, 2010-Quezon City	5	2	7
Training on Rapid Technical Assessment of Certified Plumbers and Engineers-February 16-18, 2010-San Fernando La Union	45	40	85
Septage Management and Promotions Program-February 10-12, 2010-Davao City	14	10	24
Septage, Sewerage and Sanitation Technology Symposium-March 16-18, 2010-San Fernando La Union	91	26	117
<b>Total for Quarter 10</b>	<b>162</b>	<b>84</b>	<b>246</b>

5. In Sta. Rosa, 71 people were trained during a workshop on hygiene promotion for children under five, focused on handwashing with soap.
6. None
7. None
8. None
9. None
10. Sta. Rosa Community Hospital Wastewater Treatment Facility.

### **III. Summary of Major Accomplishments**

#### **A. Baesa Component of USAID-Rotary Sanitation Project Launched**

Barangay Baesa hosted the launching of the Baesa portion of the USAID-Rotary Pasig River System Improvement Project on January 8, 2010. The project will work to improve the state of the Pasig River by undertaking wastewater treatment, solid waste management, hygiene promotion and related activities in Paco and Santa Ana, Manila and in Baesa, Quezon City. The following signed a Memorandum of Understanding (MOU) during the launch: Rotary International District 3780 District Governor Dulce dB. Coyukiat, AECOM International Development (implementer of the USAID Philippine Sanitation Alliance project) Chief of Party Lisa K. Lumbao, Maynilad Water Services, Inc. President Rogelio L. Singson, and Barangay Baesa Captain Eduardo R. Juan. Quezon City Vice-Mayor Herbert Bautista, City Councilor Bernadette Herrera-Dy, USAID officer Jose Dulce, and members of the Rotary Community Corps of Baesa were also present to grace the occasion.

The project overview was presented by PSA Chief of Party Lisa Lumbao, followed by a presentation on the proposed combined sewerage system and sewage treatment plant project by Maynilad Head of Sewerage and Sanitation, Tony Garcia. Paul Tatlonghari from Quezon City's Environmental Protection and Waste Management Department present the environmental initiatives and programs of the city. Barangay Captain Ed Juan made the closing remarks after the formal MOU signing.

The four partners will work together to develop and implement a work plan to support Maynilad's sewage treatment system through community awareness raising and improved solid waste management. Hygiene promotion through handwashing will also be promoted in public schools.

#### **B. Manila Component of USAID-Rotary Sanitation Project Launched**

On January 13, 2010, the Paco and Sta. Ana, Manila component of the USAID-Rotary Pasig River Improvement Project was launched in Sta. Ana, Manila on board the Pasig River Ferry. While cruising down the historic river, project partners signed two Memoranda of Understanding (MOUs) to help improve the state of the Pasig River by undertaking wastewater treatment, solid waste management, hygiene promotion and related sanitation activities in Paco and Sta. Ana in Manila. The Manila project partners include the USAID Philippine Sanitation Alliance, Rotary International District 3810, City of Manila, and Metro Manila Development Authority. Two NGOs, Lola Grande Foundation for Women and Children, Inc., and Solid Waste Management Association of the Philippines, will implement various components of the project. The launch was graced by Acting USAID Mission Director Elzadia Washington; Regional Rotary Foundation Coordinator and Past District Governor Melito Salazar; a representative of City of Manila Mayor Alfredo S. Lim; and MMDA General Manager Robert Nacianceno. At the helm was RI District 3810 Governor, Concepcion N. Beltran. PSA Chief of Party Lisa Lumbao presented the project components, and a joint Statement of Commitment to cooperate was made by representatives of Sta. Ana Barangays 873, 876, 879, 884, 885 and 889, PLAN International Philippines, Public Market Vendors' Associations, Church of our Lady of the Abandoned, and schools in Sta. Ana and Paco.

#### **C. Construction of the Sta. Ana Public Market Wastewater Treatment Plant Begins**

On March 11 construction of the Sta. Ana Public Market Wastewater Treatment plant started. The facility was designed by Engineer Lito Santos, a PSA consultant, together with engineers from the City of Manila. It utilizes low-cost, low-maintenance technology made up of two main components: an anaerobic baffled reactor and a sequencing batch reactor. The system is designed to meet DENR's discharge requirements for the Pasig River of less than 50 mg/l biochemical oxygen demand (BOD) and less than 50 mg/l total suspended solids (TSS). It is also designed to provide for full disinfection that will result in zero fecal coliform bacteria per 100 ml being discharged. The Metropolitan Manila Development Authority (MMDA) is providing the staff and construction equipment, while members of the Rotary Club of Manila are purchasing the construction materials and providing monitoring and oversight. Rotary International District 3810 has engaged a locally-based nongovernmental organization, the Lola Grande Foundation, to provide logistical support and conduct consultations with local stakeholders, including barangay leaders and the Sta. Ana Public Market Vendor's Association.

On March 24, PSA Senior Sanitation Advisor Dave Robbins trained the Metro Manila Development Authority field construction staff on safety at the Sta. Ana sewage treatment plant construction site. The training focused on confined space entry and electrical safety. The first topic, highlighting the proper ways of entering tanks or other confined spaces, is most important in the Philippines. Every year people are needlessly injured or killed due to by entering tanks improperly, often due to low levels of oxygen. The training presented the proper safety equipment, use of the buddy system, air monitoring and the Occupational Safety and Health Administration (OSHA) procedures required in the United States. The second topic, electrical safety, focused on OSHA's Lockout/Tagout electrical safety procedures. These include steps to ensure that circuit breakers are de-energized prior to technicians working on electrical components. For both topics, handouts describing latest safety, compliance and monitoring information were provided.

#### **D. MOA signed for USAID-Rotary San Fernando City Sewerage and Septage Management Project**

On January 19, a memorandum of agreement (MOA) between the Rotary Club of San Fernando (L.U.), Inc., the City of San Fernando and the USAID Philippine Sanitation Alliance was signed for the 18-month USAID-Rotary Sewerage and Septage Management Project. The City Council of San Fernando, La Union approved a measure authorizing the mayor to enter into the MOA. The project is part of the USAID-Rotary International Water Collaboration, which is supporting water and sanitation initiatives in the Dominican Republic, Ghana and the Philippines. During the signing ceremony, statements of commitment were read from the Department of Health, the Environmental Management Bureau of the Department of Environment and Natural Resources, the local water district, and the Barangay association of the city. There were approximately 50 people including members of the public, media and government in attendance. A formal launch of the program is scheduled for March 11 and 12, which will be a feature of the first annual Regional Water and Sanitation Convention, which will be held in San Fernando and promoted by the city and local rotary clubs.

#### **E. San Fernando City Sanitation, Sewerage and Septage Management Symposium**

On March 16 and 17, the Philippine Sanitation Alliance, in conjunction with the San Fernando City government and the Rotary Club of San Fernando (LU), Inc., convened its first annual Region 1 Sanitation, Sewerage and Septage Management Symposium. The event attracted 144 registered guests from the region and included sanitary inspectors, engineers, city environment officers and private sector service providers. Also in attendance were 32 graduating engineering

students from St. Louis College in San Fernando City. An exhibit hall was provided where products and services for the sanitation sector were displayed and demonstrated. The two-day event culminated in a city tour, which included visits to sanitation projects including the wastewater treatment system for the public market, the EcoSan village, the Lorma Hospital wastewater treatment plant, and the site of the proposed city's septage treatment facility. A major output of the event was a workshop where teams from 8 of the region's largest cities developed sanitation action plans. The symposium was funded in part by the USAID-Rotary San Fernando City Sewerage and Septage Management Project, with additional support from exhibitor and registration fees.

#### **F. Launching of the USAID-Rotary San Fernando City Sewerage and Septage Management Project**

On March 16th, the USAID-Rotary San Fernando City Sewerage and Septage Management Project was officially launched. Representatives from the Region 1 Governor's office, the City of San Fernando, Department of Environment and Natural Resources, Department of Health, USAID, and the local Rotary Club were in attendance along with 176 attendees of the Sanitation, Sewerage and Septage Management symposium. The event marks the beginning of an 18 month project that will provide septage management and sewerage for San Fernando City in La Union Province.

#### **G. CDO to Commence Procurement for Septage Facility**

Following completion of the terms of reference (TOR) and agreements with the Cagayan de Oro Water District (COWD), Cagayan de Oro City is actively seeking a private sector partner to implement a design-build-operate (DBO) contract for its septage management program. The contract will require the private proponent to design and construct a treatment facility, purchase and operate the desludging trucks, and implement a comprehensive program for scheduled desludging of septic tanks in the city. The city government will approve a comprehensive citywide septage management ordinance and develop a targeted promotion campaign. The COWD will collect septage treatment fees and use them to pay the private operator. PSA is assisting the Technical Working Group of the City in crafting the ordinance, developing the promotion campaign, and facilitating the development of an optimal institutional arrangement among the partners. The TOR will be published in April.

A Handwashing Day is being organized in the City with the involvement of PSA, CDO-based organizations, a German-funded Department of Education program called *Fit for School*, private manufacturing company Union Galva Steel, and Xavier University. The group will construct handwashing stations, conduct a campaign on handwashing in schools and measure the impact.

#### **H. Calamba City Commits to Fund Treatment Facility Sites**

Subsequent to the passage of the city's septage management ordinance, the Calamba Water District (CWD) Board members, key officers and PSA consultants met with the City Mayor on January 12, 2010 to discuss the LGU's role in the program, particularly on the procurement of land for the treatment sites. The Chairman kicked off the discussion by thanking the city government for the septage management ordinance and went on to share the experiences of one of the CWD board members and some officers during their PSA-supported study tour to Dumaguete City and two other neighboring cities. He stressed the importance of collaboration between the LGU and the water district in sanitation projects. Thereafter, the rest of the CWD

contingent and PSA consultants formally asked the Mayor to appropriate P5 million for the purchase of land in Barangay Bukal for the sewage treatment system and donate a portion of the city's property located at Puting Lupa, Calamba City for the septage treatment plant. The City Mayor committed to endorse the request to the city council for approval but asked the CWD to first specify the site at Puting Lupa and determine the exact size needed by the treatment facility.

In separate small workshops with the technical working group (TWG) and promotions team of the water district, PSA consultants assisted them in finalizing the draft IRR of the ordinance and revising the design of the wastewater treatment facility to include an anaerobic baffled reactor with intermittent sand filter. PSA consultants also oriented the interviewers on the conduct of the forthcoming survey. With all these preparations, the water district hopes to start the bid process for the construction of the Bukal wastewater treatment facility in March.

### **I. Barangay Consultation on Bucal Sewerage Project Held**

Approximately 80 residents from Barangay Bucal in Calamba City and a number of water district officers and staff attended a barangay consultation meeting on the acceptability of the proposed sewerage project on March 12, 2010 at the nearby Bucal Elementary School. To establish the urgency and need for the project, PSA consultant Nene Narvaez highlighted the pollution situation in the country and Calamba City and reported on the steps being undertaken by the water district and city government to reduce further pollution. Engineer Ranely Cartago of the Calamba Water District illustrated how the facility will be constructed and the different steps needed to complete the project.

The participants realized the importance of their participation in this long-term sewerage project that seeks to protect the Bucal spring, the city's main source of water. They also understood the need for additional tariff that will be added to the water bill. Some mentioned limited budget as possible constraint but in general, there was a consensus that the project will bring about long-term benefits to their community. The water district will now apply for the required environmental clearance certificate (ECC) in preparation for the project construction anticipated to start in June of this year.

### **J. Davao Kicks Off Work Planning for Septage Management**

From January 14 to 15, PSA Sr. Project Coordinator Jay Tecson met with officers and staff of the Davao City Water District, Davao City government, and Davao City Council to kick off work planning for septage management. The septage management ordinance is now in its 7<sup>th</sup> version and is scheduled to undergo a series of readings and deliberation in the Council starting January 26. To kick off the septage management program, a planned workshop and site visit is being scheduled on February 10 and 11. The workshop will focus on site investigation and selection for the septage treatment facility and a parallel session on promotions. The proposed site visit will look into existing STPs and proposed sites for the septage treatment facility within Davao City. A technical working group will be organized prior to the workshop; 7 will come from DCWD, 8 from the City, and 10 from national agencies, barangay officials, local rotary club, and private desludgers. Two barangays are being considered to pilot test the septage management program: Brgy. Toril and Brgy. Lubugan, comprising about 7,600 connections.

### **K. Laguna Develops Septage Management Program**

The Technical Cluster and Promotion Cluster met in separate sessions on January 19 and 20 in Los Baños, Laguna. The Technical Cluster meeting was facilitated by Sr. Sanitary Engineer Lito Santos and focused primarily on site investigation and selection. The Promotion Cluster was facilitated by Sr. Finance Specialist Nene Narvaez, who went through the initial steps of the 10-step promotion toolkit. The Technical Cluster conducted site visit of 4 sites that are being considered for the septage treatment facility. They also visited the sewage treatment facility of UP Los Baños campus which is currently not operational. The Promotion Cluster customized the survey instrument to be used for the survey of households and commercial establishments, and did role-playing to test out the instrument and revised it accordingly. The Technical Cluster will meet in February to discuss further the different site options and finalize the siting of the facility, while the Promotion Cluster will conduct the pre-testing of the survey instrument and carry out the survey in the four municipalities. PSA works with 4 municipalities in Laguna: Los Baños, Bay, Calauan, and Victoria, all within the service area of the Laguna Water District.

#### **L. PSA-PWRF Partnership to Develop Septage Management in Iloilo, Bacolod and Roxas**

In a meeting held last January 22, PSA Sr. Project Coordinator Jay Tecson met with representatives of Iloilo City, Bacolod City, and Roxas City in Iloilo together with Alma Porciuncula, Chief of Party of the USAID Philippine Water Revolving Fund Support Program (PWRF-SP) to talk about conducting simultaneous studies on septage management for the three cities. Hosted by Metro-Iloilo Water District, the participants discussed collaboration among the three cities and their respective water utilities, which will benefit from the technical assistance from PSA and PWRF-SP. A presentation was made on septage management and on the project development process, which will be used as the basis and scope for the technical assistance. PWRF-SP presented a model Terms of Reference that was reviewed and commented on by the participants. The group proposed to finalize and submit a resolution and signed Memorandum of Understanding (MOU) from the Board of Directors of each water utility to PWRF-SP, organize a technical and promotion team, plan a high-level MOU signing ceremony of MOU in February, and conduct the first workshop on February 25 and 26 in Iloilo City.

#### **M. Dumaguete Gears Up for the Opening of the Septage Treatment Facility in March**

To prepare for the start up of Dumaguete City Septage Treatment facility, the Technical Working Group met with PSA's Jay Tecson and Nene Narvaez on January 25-26, 2010 to talk about details of the operations and maintenance of the treatment facility and the desludging trucks. The TWG, representing members from the city departments and Dumaguete City Water District, presented the proposed operation and maintenance procedures for the facility and trucks and this was reviewed and commented on by the participants. At the end of the meeting, the TWG decided to send out notices to the public on the planned operation of the facility and start of the collection of septage fees in March.

#### **N. Dumaguete City Authority Approves Policies for the Septage Management Program**

During the first Dumaguete City Septage Management Authority (CSMA) meeting held March 9, major operational and financial policy issues that will govern the soon-to-be launched septage management program of Dumaguete City were approved by the body. The CSMA is co-chaired by City Mayor Agustin Perdices and DCWD General Manager Espirato Dican. The policy issues resolved by the body included procurement of additional desludging trucks, accommodation of requests from other LGUs and existing service providers to use the septage treatment facility, assistance to households with substandard septic tanks or no septic tank, residuals



management, bookkeeping of the trust fund, incentive fund for the host barangay, and pricing and strategy for non-DCWD customers and emergency desludging. The next CSMA meeting is scheduled on April 13.

In a workshop facilitated by PSA Senior Project Coordinator Jay Tecson on March 10, the expanded TWG met to finalize procedures and rules for the operations and maintenance manual for the septage management program. There will be three volumes representing plant operations (Volume 1), desludging operations (Volume 2), and financial management (Volume 3). The final document will be launched during the inauguration of the septage treatment facility on April 22.

On March 11, approximately 25 city residents and other stakeholders discussed the septage management program during the “Kolokabildo”—a bi-monthly program of the Public Information Office to discuss topics that concern the citizenry in a cordial environment. City Administrator William Ablong presented the legal basis for the program, while Leo Namicpic of the promotion team discussed the project’s benefits to the residents. Some members of the TWG and promotions team, GM Dicen of DCWD and PSA consultant Nene Narvaez alternately answered the questions and concerns of the participants. At the end of the forum the participants were convinced of the safety and advantages of the program.

#### **O. Handwashing Workshop-Training for Barangay Health Workers and Daycare Workers**

Forty eight barangay health workers and day care workers underwent a one-day training-workshop on Handwashing on March 12 as part of Santa Rosa's Promotions Plan on Hygiene and Sanitation. The focus of the workshop was to create an action plan for an information drive in three barangays with the highest incidence of diarrhea and other water-borne diseases in the city. The three barangays—Caingin, Sinalhan and Tagapo—were also affected by the AH1N1 epidemic last year. PSA consultants Andrea Echavez and Nene Narvaez gave inputs and facilitated workshop sessions on effective information drive strategies and tools focused on mothers with children under 5. Participants came up with information tools and drew up 3-month campaign plans for their respective barangays. The objective of the campaign is to increase the number of mothers with children under 5 practicing proper handwashing in the target barangays by September 2010 and thereby decrease the percentage of diarrhea incidence.

#### **P. PSA Participates in East Asia Ministerial Conference on Sanitation**

PSA staff provided assistance in the planning and implementation of the second East Asian Ministerial Conference on Sanitation and Hygiene (EASAN) held in Manila last January 27 to 29. PSA worked with PWRF and MWSS on the documentation and communication committee, and assisted in developing the technical program. PSA consultants Jay Tecson and Nene Narvaez facilitated breakout sessions and provided support to the press coverage. Information on PSA and its work on septage management was provided in an exhibit during the whole conference. Several PSA partner cities like Dumaguete City and Marikina City were cited during the session on septage management. PSA and USAID-Philippines were also invited to attend the luncheon meeting for donor agencies on the third day. The next EASAN conference will be held in Indonesia in 2012.

#### **Q. PSA Supports Crafting the National Promotion Program for Sustainable Sanitation**

Under the auspices of the Department of Health (DOH), a one and half day workshop on the National Sustainable Sanitation Promotion Program was conducted at the World Bank office in

Manila last February 3 and 4. The workshop was meant to contextualize and integrate results of the National Sustainable Sanitation Plan (NSSP) with the task of doing a promotion program to support the NSSP. Clear objectives and targets were identified and an outline for the framework was developed, which will be subjected to a finalization consultation workshop in mid-March.

Participants included stakeholders from government, NGOs, donor agencies, and DOH consultants. The activity was supported by the Sustainable Sanitation in East Asia (SuSEA) program of the World Bank with the Department of Health. PSA provided facilitation support and provided inputs from its extensive promotion work. PSA has also suggested the use of the 10-step promotion toolkit as a process for assisting local stakeholders develop their individual promotion campaigns. The final draft is set to be submitted and approved by DOH by the end of April.

#### **R. PSA Lined Up as Mentor for Resource Pool for Sustainable Sanitation**

On March 8-12 in Tagaytay City, a workshop was held to prepare for a Training of Trainers on Sustainable Sanitation course that will be offered to sanitary inspectors, sanitation professionals and practitioners with support from the Department of Health, Center for Advanced Philippine Studies, World Bank, and the Stockholm Environment Institute. PSA consultant Jay Tecson participated in the Tagaytay workshop, finalized the list of topics for the training course, drafted the syllabi of selected topics that will be useful for the Basic or Advanced Training Course on Sustainable Sanitation and developed an oath of commitment signed by the Charter Trainers on sustainable sanitation. The training included mentoring and coaching methods as part of the basics of adult teaching and learning, delivery methods, and style.

#### **IV. Management and Finance**

The project is on track in terms of overall management, reporting and expenditures. Information on training programs is updated on the TraiNet system. Additional funding was received from USAID for the two USAID-Rotary projects, and AECOM has requested a budget realignment. AECOM submitted revised indicators to USAID and is awaiting feedback. Once approved, AECOM will revise the projects Monitoring and Evaluation Plan. AECOM has begun development of a PSA website.

AECOM has submitted the VAT exemption certificate reports that detail all expenditures in which the VAT was exempted, and all expenditures over \$100 in which the certificate was not honored and VAT was paid. AECOM's inventory list has been updated and two nonfunctioning computers have been disposed of. One small desk remains to be transferred to another USAID-funded project or donated to an NGO.

#### **V. Performance Objectives for Next Quarter**

During the next quarter, AECOM will focus on the following major activities:

1. Completion of the Sta. Ana Public Market Wastewater Treatment Facility;
2. Launching of a PSA website;
3. Continued assistance focused on development of septage management programs and promotion campaigns; and
4. Inauguration of the Dumaguete City Septage Treatment Facility and Sta. Rosa Community Hospital Wastewater Treatment Facility.